7	-
ζ	5
-	- -

MILEAELDCHRERPGAPGASALCTFSRTPM	RA	CKADYETAKOREAEATAKRPRTTITAKOLETLKSAYNTSPKPARHVREQLSSETGLDMRVVQVWFQNRRA	EKRLKKDAGRQRWGQYFRNMKRARGGSKSDKDSVQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPA	SSLVYPEAGLGLV*P DTN-S*- DSIM*G -N-AF-DTIIGO	
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FIG. 2

FIG. 3Ai

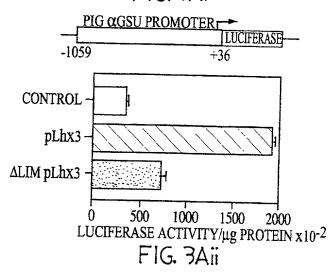


FIG. 3Bi

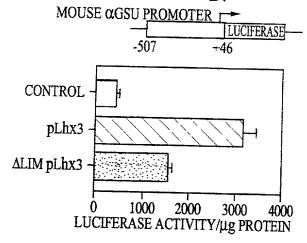


FIG. 3Bii

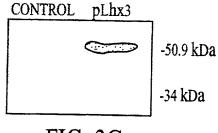
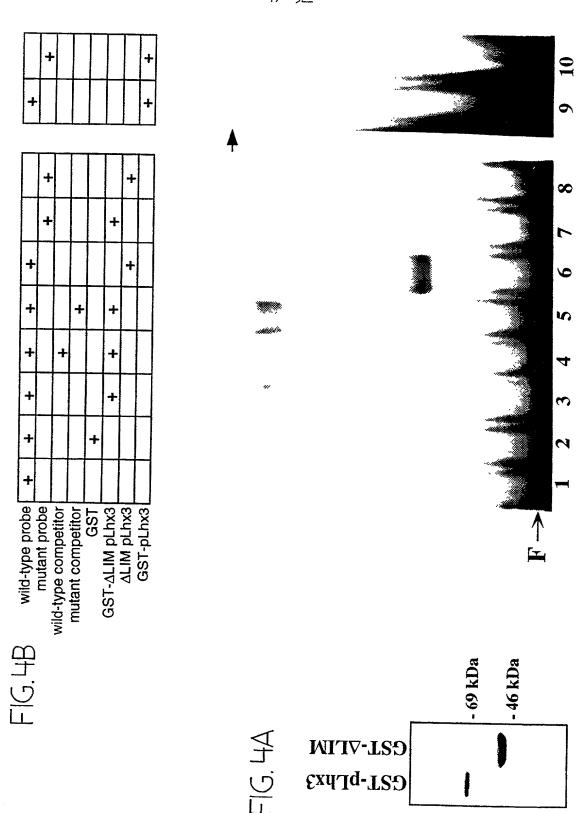


FIG. 3C



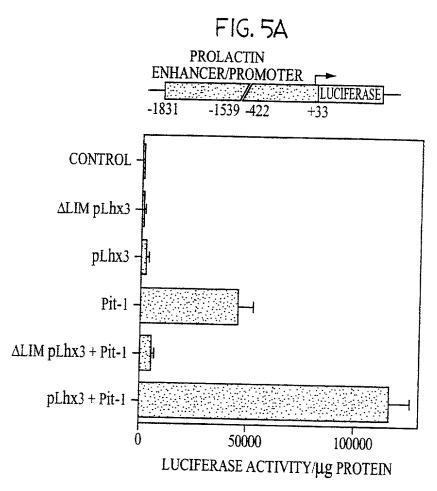


FIG. 5B

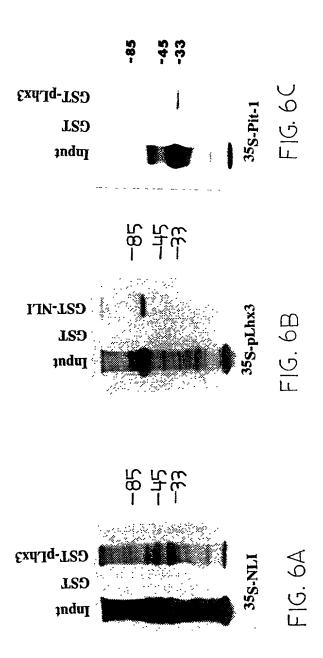


FIG. 7A

And the sand that the first that the start that

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61 ccagcacatc ctggaccgct tcatcctcaa ggctctggac cgccactggc acagcaagtg 181 cctctactgc aaggacgact tcttcaagcg cttcgggacc aagtgcgccg cgtgccagct 1 ctgggagggg cggccacagg agctgggagg aaaagagatc ccactgtgtg ccggctgcga 121 cctcaagtgc agtgactgcc acacgccgct ggccgagcgc tgcttcagcc gcggagagag 241 gggcatcccg cccacgcagg tggtgcgccg cgcccaggac ttcgtgtacc acctgcactg 421 cacggccaag cggccgcgca cgaccatcac ggccaagcag ctggagacgc tgaagagcgc 301 cttcgcctgc gtcgtgtgca agcggcagct ggccacgggc gacgagttct acctcatgga 361 ggacagccgg ctcgtgtgca aggccgacta cgagaccgcc aagcagcgag aggccgaggc 481 ctacaacacy tcgcccaagc ccgcgcgcca cgtgcgcgag cagctctcct ccgagaccgg 541 cctggacatg cgcgtcgtgc aggtgtggtt ccagaaccgc cgggccaagg aaaagcggct 601 caagaaggac gccggccggc agcgctgggg ccagtacttt cgtaacatga agcgcgcccg 661 cggtggctcc aagtcggaca aggacagcgt ccaggaggag gggcaggaca gtgacgccga 841 gctggagcac ggaggcctgg cgggcccgga gcagtatgga gagctgcgcc ccagcagccc 721 ggtctccttc acagacgagc catccatggc cgaaatgggc cctgccaacg gcctctacgg 781 cggcctgggg gagcctgccc ctgccttggg ccggccctcg ggggccccgg gcagcttccc 961 ctccagcttg gtgtacccgg aggctggctt ggggcttgtg cccgcgggggc ccccaggtgg 1021 gcccccaccc atgagggtgc tggcagggaa cggacccagc tccgacctat ccacggggag 901 ctacggtgtc ccctcgtcgc ccgccgccct gcagagcctc cctggccccc agcccctcct

FIG. 7F

A find the state then the state that the state that

1081 cagtgggggc taccccgact tccctgccag tcccgcctcc tggctggacg aggtggatca 1141 cgctcagttc tgactgaggc cccagctccg tggagcacca gacacgagca ctgccctgg 1201 ctgggtggtc gggagccgcg ctctcctttc ccgaagccct gggcctctaa aggacacagg 1261 gtcaccggcg gggcacaggc tgaggactgt ccagcccggc ggccctggcc ccgggcagag 1321 ggactttctc ccggtctcga ggctccttct gggacaaggg gagccacctg gtggctgctc 1381 agcaagcctt gttttgtaag cagattcctc cctttatcaa ccaaaattaa ctgagtgctt 1441 gctgctcttt ctagaccgga gtggtcagcc cccgaagccg gggagggggg ctctccccag 1501 cccagagcag cacagccctc agactggaag atgctttaat ttttaaaatt aaaaataat 561 acgaactgtg cttccatttc ccagcttcct ctgtctagtt ctgcc

FIG. 8

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WEGRPQELGGKEIPLCAGCDQHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFS RGESLYCKDDFFKRFGTKCAACQLGIPPTQVVRRAQDFVYHLHCFACVVCKRQLAT GDEFYLMEDSRLVCKADYETAKQREAEATAKRPRTTITAKQLETLKSAYNTSPKPA RHVREQLSSETGLDMRVVQVWFQNRRAKEKRLKKDAGRQRWGQYFRNMKRARGGSK SDKDSVQEEGQDSDAEVSFTDEPSMAEMGPANGLYGGLGEPAPALGRPSGAPGSFP LEHGGLAGPEQYGELRPSSPYGVPSSPAALQSLPGPQPLLSSLVYPEAGLGLVPAG PPGGPPPMRVLAGNGPSSDLSTGSSGGYPDFPASPASWLDEVDHAQF

hLhx3a L L	. HD	LSD	397aa
hLhx3b L L	HD	LSD	402aa

Fig. 9A

MEARGELGPARESAGGDLLLALLARRADLRR 31

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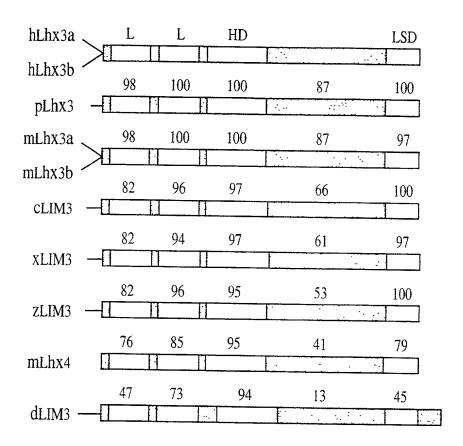


Fig. 9C

-104 ggcacgagcc ccgcacgacg cggcgggact tggggagcccc gaaccctcca

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- -54 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc
 - CCGCCGCCGT CTGCACCTTG GGCGGGACTC GG
- 79 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT
- 129 CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG
- ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT
- TACTGCAAGG ACGACTTTTT CAAGCGCTTC GGGACCAAGT GCGCCGCGTG
 - 279
- TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC
- ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC
- GGACTACGAA ACCGCCAAGC AGCGAGAGGC CGAGGCCACG GCCAAGCGGC CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC 429
 - AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA
- GACGGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCCGGG
- CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG
 - TATTTCCGCA ACATGAAGCG CTCCCGCGGC GGCTCCAAGT CGGACAAGGA
- CAGCGTTCAG GAGGGGCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG

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779 AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG 879 CTCCCTGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC GTCCCGGCAG CCCCTACGGT GTCCCCCCAT CCCCCGCCGC CCCGCAGAGC CTCCCTGGCC CCCAGCCCCT CCTCTCCAGC CTGGTGTACC CAGACACCAG CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGGCCCCCA CCCATGAGGG TGCTGGCAGG GAACGGACCC AGTTCTGACC TATCCACGGG GAGCAGCGGG 829 GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT GGTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA CCACGCTCAG TTCTGAccca ggcccggctc caccctgcac ctcacacgag tggggccagg gcgtcaaggg agggctggtg ccttcggagc ctcccactgc cgaccgcaca gctccctctc tgggggctga gggacccacc tggcccctcc ggagctgccc ctgggtgggc ggctcggggc tgctggggtt tccgaggaag tctgacacag ggctggcccg ccaggtggcc tcccagcaag ccagcctttt ttgtaagcaa atttctcccc tttattgacc aattaactga gcacttgctg atagcccgag ggctggaaaa acgctttcat ctctaaaact gagaaatcat cataattgtg ctttcacttc ccaggctcca tgtgtcttgg agccgtcacc ccgaggctcc ctctttaggt cggagattgg ccttgcctgt cgaggcaaga 979 1029 1229 1279 1379 1429 1479 1579 1529

FIG. 100

1729 cttggtgtcc aggctgcacc cacagatgtc tgttgccaaa cagcctgccc 1679 ggctgcagag gcggggacac acctgtgtcc tcctcacccc accccaggcc 1829 ggagaagggt ggggctcctc tgagcctgcc ctgcctcctc catcagatcc tocotgoogg agooggotot gooagoooca gattgggaag totooogot tttgggaaga agtttctggg agatgcccgc agctgtgcgt gccccagaca caaaggctgg cctgtgtgta agtcaaagtc actcccgcaa acctgaatct egagetacet attggttetg tgaatgttet gtgtetttta tttatteteg 2029 ggtgatcagc tctttccaag ctcgtgcc 1929

FIG. 11A

- -119 cgcagcgcccagcacccggagtcgctt ggacgccggt tcggggctat -69 tgcggggtgg cgtcgctggg cccgggaaag ttcgggactg gagagtggcg $extstyle{-}19$ acgecgggcg gegggaeeeA TGGAGGCGCG CGGGGAGCTG GGCCCGGCCC 32 GGGAGTCGGC GGGAGGCGAC CTGCTGCTAG CACTGCTGGC GCGGAGGGCA 82 GACCTGCGCCGA
- 144 CCTCAAGGCT CTGGACCGCC ACTGGCACAG CAAGTGTCTC AAGTGCAGCG 94 GAGATCCCGC TGTGCGCTGG CTGTGACCAG CACATCCTGG ACCGCTTCAT
 - ACTGCCACAC GCCACTGGCC GAGCGCTGCT TCAGCCGAGG GGAGAGCGTT

FIG. 11B

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TGTACCACCT GCACTGCTTT GCCTGCGTCG TGTGCAAGCG GCAGCTGGCC GGACTACGAA ACCGCCAAGC AGCGAGAGGC CGAGGCCACG GCCAAGCGGC ACGGGCGACG AGTTCTACCT CATGGAGGAC AGCCGGCTCG TGTGCAAGGC CGCGCACGAC CATCACCGCC AAGCAGCTGG AGACGCTGAA GAGCGCTTAC GACGGGCCTG GACATGCGCG TGGTGCAGGT TTGGTTCCAG AACCGCCGGG CCAAGGAGAA GAGGCTGAAG AAGGACGCCG GCCGGCAGCG CTGGGGGCAG AACACCTCGC CCAAGCCGGC GCGCCACGTG CGCGAGCAGC TCTCGTCCGA CAGCGTTCAG GAGGGCCAGG ACAGCGACGC TGAGGTCTCC TTCCCCGATG AGCCTTCCTT GGCGGAAATG GGCCCGGCCA ATGGCCTCTA CGGGAGCTTG TATITICCGCA ACATGAAGCG CTCCCGCGGC GGCTCCAAGT CGGACAAGGA CTCCCTGGCC CCCAGCCCCT CCTCTCCAGC CTGGTGTACC CAGACACCAG CTTGGGCCTT GTGCCCTCGG GAGCCCCCGG CGGGCCCCCA CCCATGAGGG CTCCCTGGAG CATGGAGGCC TGGCAGGCCC AGAGCAGTAC CGAGAGCTGC GTCCCGGCAG CCCCTACGGT GTCCCCCCAT CCCCCGCCGC CCCGCAGAGC TGCTGGCAGG GAACGGACCC AGTTCTGACC TATCCACGGG GAGCAGCGGG 244 TACTGCAAGG ACGACTTTTT CAAGCGCTTC GGGACCAAGT GCGCCGCGT(GGGGAACCCA CCCAGGCCTT GGGCCGGCCC TCGGGAGCCC TGGGCAACTT 294 344 394 444 544 494 744 594 644 694 794 844 1044 894 944 994 1094

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GGTTACCCCG ACTTCCCTGC CAGCCCCGCC TCCTGGCTGG ATGAGGTAGA CCACGCTCAG TTCTGAccca ggcccggctc caccctgcac ctcacacgag cgaccgcaca gctccctctc tgggggctga gggacccacc tggcccctcc ggagctgccc ctgggtgggc ggctcggggc tgctggggtt tccgaggaag tggggccagg gcgtcaaggg agggctggtg ccttcggagc ctcccactgc tctgacacag ggctggcccg ccaggtggcc tcccagcaag ccagcctttt ttgtaagcaa atttctcccc tttattgacc aattaactga gcacttgctg atagcccgag ggctggaaaa acgctttcat ctctaaaact gagaaatcat cataattgtg ctttcacttc ccaggctcca tgtgtcttgg agccgtcacc ccgaggctcc ctctttaggt cggagattgg ccttgcctgt cgaggcaaga cttggtgtcc aggctgcacc cacagatgtc tgttgccaaa cagcctgccc ggagaagggt ggggctcctc tgagcctgcc ctgcctcctc catcagatcc ggatgcagag gagggacac acatgtgtac teatcacece aceceaggee tocotgoogg agooggotot gocagoooca gattgggaag totoooogot tttgggaaga agtttctggg agatgcccgc agctgtgcgt gccccagaca caaaggctgg cctgtgtgta agtcaaagtc actcccgcaa acctgaatct cgagctacct attggttctg tgaatgttct gtgtctttta tttattctcg ggtgatcagc tctttccaag ctcgtgcc 1194 1244 1294 1344 1394 1444 1494 1544 1594 1644 1694 1744 1794 1844 1894 1944

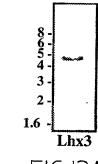
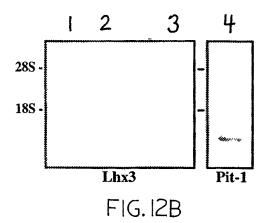


FIG. 12A



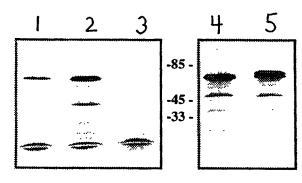
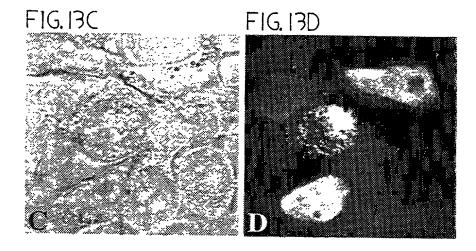


FIG. 12C

FIG. IBB

FIG. IBB

B



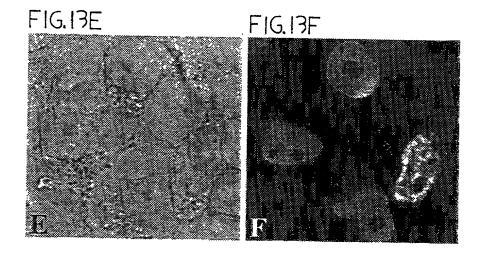


FIG. 14Ai

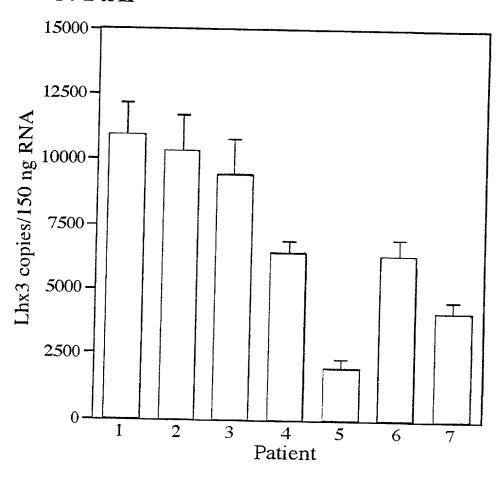
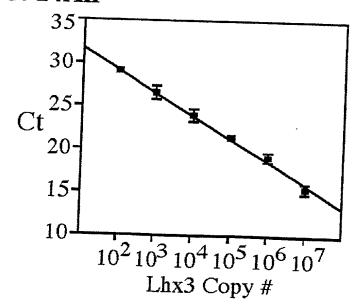
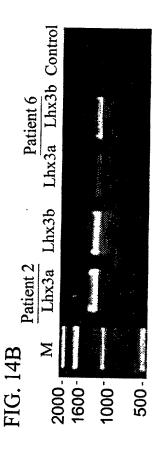
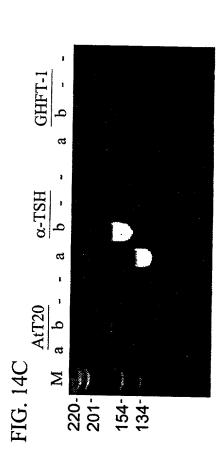
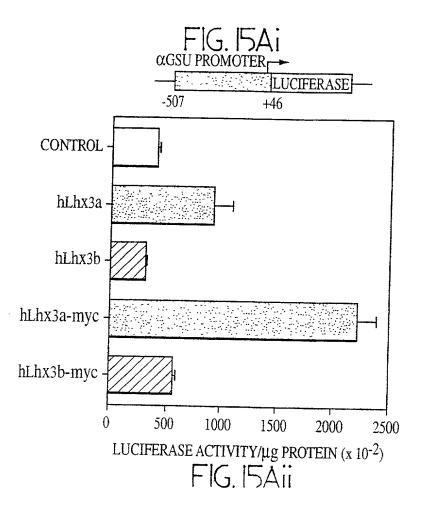


FIG. 14Aii









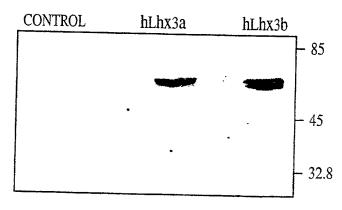
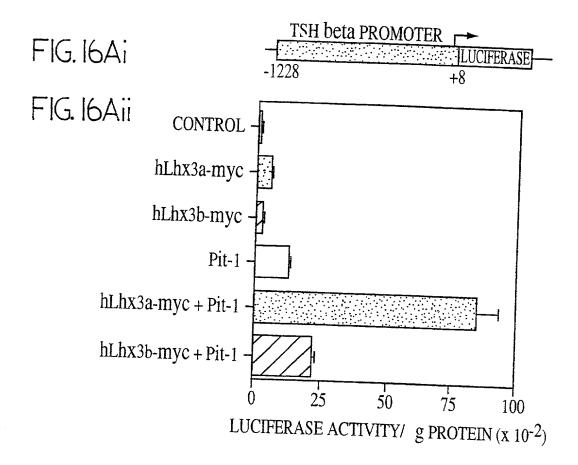


Fig. 15B



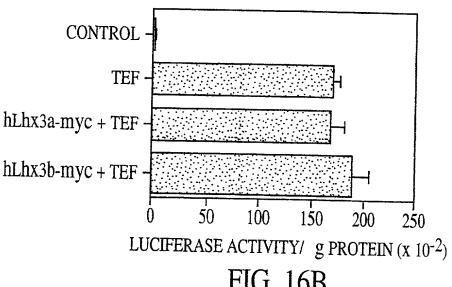
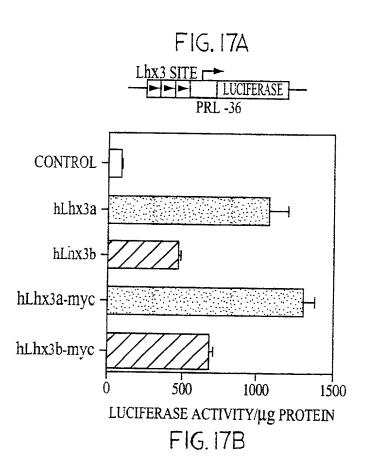
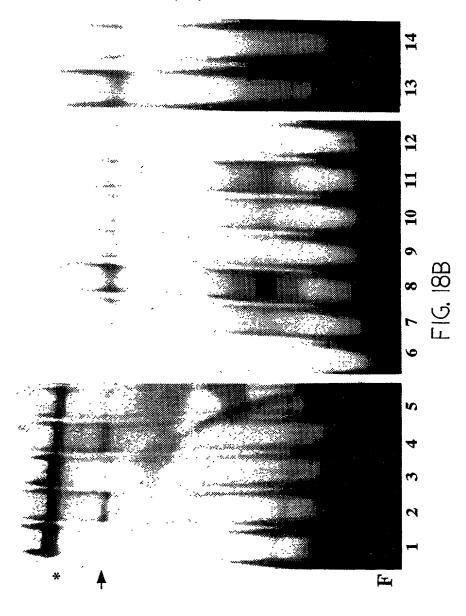
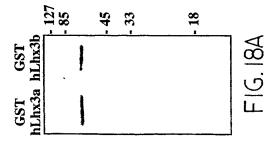


FIG. 16B



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FIG. 19A

tggtctacga ggtgacccag aacttcctcg tgcccaca GAGATCCC GCTGTGCGCT acatttgcga ggagtcccta taaagagtgg ccatgacgct taacatgaag ctatgtttcc tgccgggctt cagagagcag atccccctgg ggtggggttt tcatttgagc tccacatgca cccttcttgg cactggcaac attttgtaat gagacccgat ggggtgcccc agctccaggt gatggtgaag acccgtttcc tgagtattca gcctcgtgaa atggcctggg ctgctttctt gctcacacac atttttagac cgatgtcagt ttccccttag ctcctgacat aggatgcggt gcctgcacac tcccggaact tgcggggcca cttaagctgg ctggggaaga ggagggagg ctggctcgcg ttggggtggg aaggtggctt cactgcctcc gggtgtgtag ggaaaggagg accctcggc ggccctgagt cctgtgggcc GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT ITCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA ttgatattta ccccggaggc ctgcagacag ggccaccagg agggcagcc

FIG. 19B

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GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG GCGCCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CGCTCCCGCG GCGCCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC GTGTCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGGCC TTGTGCCCTC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC CCAGITCTGA CCTATCCACG GGGAGCAGCG GGGGITACCC CGACTTCCCT GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGA_{CC} caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc

FIG. 19C

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tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc egecaggtgg ceteccagea agecageett ttttgtaage aaatttetee cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgettte atetetaaaa etgagaaate ateataattg tgettteaet teccaggete catgtgtett ggageegtea eecegagget eeetetttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca cccacagatg tetgttgeca aacageetge eeteeetgee ggageegget ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca agctcgtgcc

FIG. 20A

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gatcgcttcg gcagcagctg acactcagcc acctgcaccc agcacagccc gcacacactt ggctttgcac ccgcgtgtcc ttgccctggc ccttcttggg ctgctcaaaa cggacacatc ggacctgctg ggagctagga gggagggact gtggtttctt gtgcccatcc ttctgggcct gggcccttaa agctcacagt taacaagtgc tgtgcaaagt gaaggggcag aaagctggct gcatgggcca ccagaagcca taggcagagt ggacagagta ttgctgtgag acccacaggg agagggacct gcaggatggc atcagcccct ggtcccccaa cccttcctgt caaggacagg tgggttctgg agagctcacc tgtgtggact ggggcaagag gtgtttctgc gcactgccag ggcacccctg cctttgccaa gtcctgtgct gccgagggcc acccactgct gtgttcttcc ccggggtggct gcccagggct ggtgctggcc cagggccctc tgggcagggg tgggtgcgtc cctctgcctg gctgaaatat caGAGATCCC GCTGTGCGCT

GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT ITCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC

FIG. 20B

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GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG GCGCCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG CGCTCCCGCG GCGCCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG TGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC GTGTCCCCC ATCCCCCGCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGCC TTGTGCCCTC CCAGTICIGA CCIAICCACG GGGAGCAGCG GGGGIIACCC CGACIICCCI GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg gaggataggg gatgatgggg tttaaggga agtggggaca gggagtaaag

FIG. 20C

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ggagggctgg tgccttcgga gcctcccact gccgaccgca caqctccctc tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc egecaggtgg ceteccagea agecageett ttttgtaage aaatttetee cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact tcccaggetc catgtgtctt ggagccgtca ccccgagget ccctctttag gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc cccacagatg tctgttgcca aacagcctgc cctccctgcc ggagccggct taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg agctcgtgcc

FIG. 21A

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gcacggcctg ggcactgcct tccagaggct gcatgccaga agGAGATCCC GCTGTGCGCT gccccagtga gccctgggct ggaggtgatc acgcatgggg ctgccccggg CCACTGGCAC AGCAAGTGTC TCAAGTGCAG CGACTGCCAC ACGCCACTGG GCAGCGAGAG GCCGAGGCCA CGGCCAAGCG GCCGCGCACG ACCATCACCG GGCTGTGACC AGCACATCCT GGACCGCTTC ATCCTCAAGG CTCTGGACCG CCGAGCGCTG CTTCAGCCGA GGGGAGAGCG TTTACTGCAA GGACGACTTT ITCAAGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA CCAAGCAGCT GGAGACGCTG AAGAGCGCTT ACAACACCTC GCCCAAGCCG GCGCCCCACG TGCGCGAGCA GCTCTCGTCC GAGACGGGCC TGGACATGCG AGAAGGACGC CGGCCGGCAG CGCTGGGGGC AGTATTTCCG CAACATGAAG TTGGGCCGGC CCTCGGGAGC CCTGGGCAAC TTCTCCCTGG AGCATGGAGG CGTGGTGCAG GTTTGGTTCC AGAACCGCCG GGCCAAGGAG AAGAGGCTGA CGCTCCCGCG GCGGCTCCAA GTCGGACAAG GACAGCGTTC AGGAGGGGCA GGACAGCGAC GCTGAGGTCT CCTTCCCCGA TGAGCCTTCC TTGGCGGAAA IGGGCCCGGC CAATGGCCTC TACGGGAGCT TGGGGGAACC CACCCAGGCC

FIG. 21E

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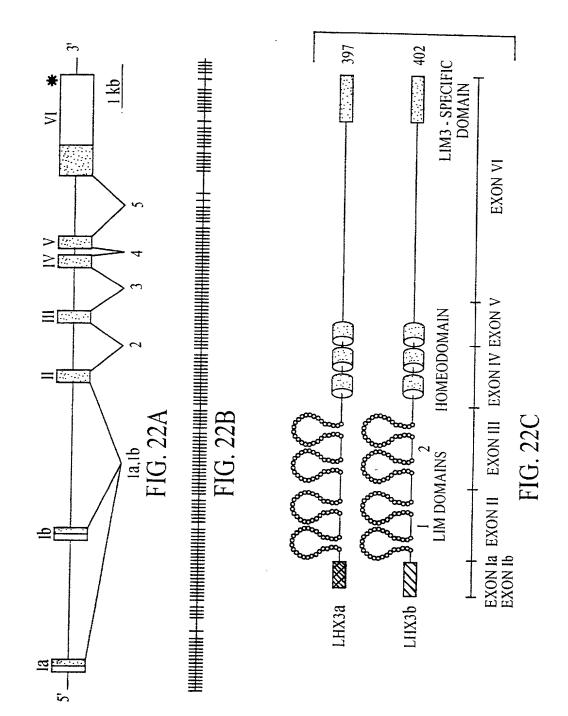
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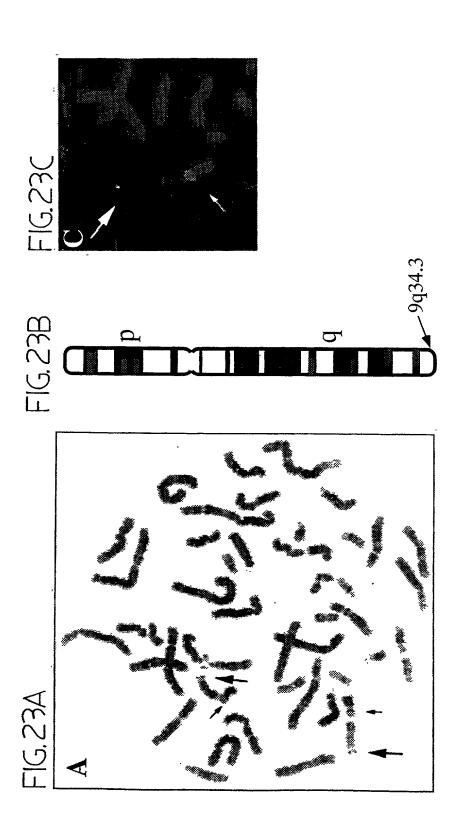
CCTGGCAGGC CCAGAGCAGT ACCGAGAGCT GCGTCCCGGC AGCCCCTACG GTGTCCCCCC ATCCCCCCCC GCCCCGCAGA GCCTCCCTGG CCCCCAGCCC CTCCTCTCCA GCCTGGTGTA CCCAGACACC AGCTTGGGGCC TTGTGCCCTC GGGAGCCCCC GGCGGCCCC CACCCATGAG GGTGCTGGCA GGGAACGGAC CCAGTICTGA CCTATCCACG GGGAGCAGCG GGGGTTACCC CGACTTCCCT GCCAGCCCCG CCTCCTGGCT GGATGAGGTA GACCACGCTC AGTTCTGACC caggcccggc tccaccctgc acctcacacg agggagctgc ccctgggtgg gcggctcggg gctgctgggg tttccgagga agtggggcca gggcgtcaag ggagggctgg tgccttcgga gcctcccact gccgaccgca cagctccctc tctgggggct gagggaccca cctggcccct cctctgacac agggctggcc cgccaggtgg cctcccagca agccagcctt ttttgtaagc aaatttctcc cctttattga ccaattaact gagcacttgc tgctatttct agacatgaaa tgtcaccttg ctgaggccca gcccagccca gcatagcccg agggctggaa aaacgctttc atctctaaaa ctgagaaatc atcataattg tgctttcact gtcggagatt ggccttgcct gtcgaggcaa gaggctgcag aggcggggac tcccaggctc catgtgtctt ggagccgtca ccccgaggct ccctctttag acacctgtgt cctcctcacc ccaccccagg cccttggtgt ccaggctgca ccacagatg tetgttgcca aacageetge eeteeetgee ggageegget

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FIG. 21C

ctgccagccc cagattggga agtctccccg ctggagaagg gtggggctcc tctgagcctg ccctgcctcc tccatcagat cctttgggaa gaagtttctg taagtcaaag tcactcccgc aaacctgaat ctcgagctac ctattggttc ggagatgccc gcagctgtgc gtgccccaga cacaaaggct ggcctgtgtg tgtgaatgtt ctgtgtcttt tatttattct cgggtgatca gctctttcca agctcgtgcc





- MLLETGLERD RARPGAAAVC TLGGTR
- EIPLCAGCDOHILDRFILKALDRHWHSKCLKCSDCHTPLAERCFSRGESV

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- YCKDDFFKRF GTKCAACQLG IPPTQVVRRA QDFVYHLHCF ACVVCKRQLA
- TGDEFYLMED SRLVCKADYE TAKQREAEAT AKRPRTTITA KQLETLKSAY
- NTSPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ
- Y FRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEM GPANGLYGSL
 - LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS

GYPDFPASPA SWLDEVDHAQ F*

- 1 MEARGELGPA RESAGGDLLL ALLARRADLR R
- EIPLCAGCDQ HILDRFILKA LDRHWHSKCL KCSDCHTPLA ERCFSRGESV
- YCKDDFFKRF GTKCAACQLG IPPTQVVRRA QDFVYHLHCF ACVVCKRQLA TGDEFYLMED SRLVCKADYE TAKQREAEAT AKRPRTTITA KQLETLKSAY 132
 - NTSPKPARHV REQLSSETGL DMRVVQVWFQ NRRAKEKRLK KDAGRQRWGQ 182
 - YFRNMKRSRG GSKSDKDSVQ EGQDSDAEVS FPDEPSLAEM GPANGLYGSL 232
 - LPGPQPLLSS LVYPDTSLGL VPSGAPGGPP PMRVLAGNGP SSDLSTGSSG GEPTQALGRP SGALGNFSLE HGGLAGPEQY RELRPGSPYG VPPSPAAPQS 282
 - GYPDFPASPA SWLDEVDHAQ F*

FIG. 26/

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51 ggggacgctg acctcggagg agcgcgtctc gcgccactcg gcctggtggc CGCGATGCTG CTGGAAACGG GGCTCGAGCG CGACCGAGCG AGGCCCGGGG 1 ggcacgagcc ccgcacgacg cggcgggact tggggagcccc gaaccctcca CCGCCGCCGT CTGCACCTTG GGCGGGACTC GGGgtaagcc ccagcaggac actgaggaca gaaacggcaa gggcggcaga ggcgcgagga aggggggtgcg tgcagggcca gcggccaggc aaagaaagtc ccgccgctct gcaggcggga cacagagatg gaaactgcag agagtgagtt tccagatccc agggtggcgg ggagggcctg acgctggcct gcaagagtgc gggacagcgg ttggagtgga gccgaccaag gggtgctagg ttcccccggt gaccagtgcc cgtcagctct tgcacacagc ccggcccagg tctctggacc ccacagcagg ggacccaagc cttgtgtctc ccgcctgaac caccctcccc aagggccatt ccatcaccac cagggtgggc cgcctcctta acctggcgcc gccccttccc cagtcctgcc ggcccctaga aaaaaagggg gcatcgcagg cacagctggg gggcgatggg ggacgctggg aaataatgga ggcattgttg gagggctggc cagatgccag acacacgacc cctgatcgct tcggcagcag ctgacactca gccacctgca cccagcacag cccgcacaca ctcggctttg cacccgcgtg tccttgccct ggcccttctt gggtaacaag tgctgtgcaa agtgaagggg cagaaagctg gctgcatggg ccactgctca aaacggacac atcggacctg ctgggagcta ggagggaggg actgtggttt cttgtgccca tccttctggg cctgggccct 451 501 601 651 851 901

FIG. 26E

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951 taaagctcac agtccagaag ccataggcag agtggacaga gtattgctgt gagacccaca gggagaggga cctgcaggat ggcatcagcc cctggtcccc caaccettec tgtgtgttte tgcgcactgc cagggcacce etgetttgce aagteetgtg etgeegaggg ecaeecaetg etgtgttett eeeegggtgg tccctctgcc tgcaaggaca ggtgggttct ggagagctca cctgtgtggga ctggggcaag aggctgaaat atcaggtaag ggaccgtgtt ccaatggagc cggagtgctg ggggctggaa atggaaggtg tgccctggggg cttccccagc ctgcccaggg ctggtgctgg cccagggccc tctgggcagg ggtgggtgcg teggececte acgaecegag gtettggetg egtgtecagg acaeagagee tgttctctct caaggattgc ccttcctccc tgagccgtcc ggggccgcag ttccaggggt ggagcccaga agcctgttag catctgggat cggtccggca tttcgggttg agctcccgcc gaccatctgc tgctcccgag gccaaacctc ccttgcggtt ccggtacgca gccctcggcg ccacactcac cccttctgcg agoggoggga ggaccctgct gccttctcga cccctctccc gggaacctta gccctcctgg cgtgtgctcc agctcaggcc tctgcctctg gcccgctccg gagaagaag atgagggaa gggaagaaag atggagggaa gaaatgaaat gggccctccc ttaccggtgc ccgccctcgg gccgggcacg cggggggggcc tctgggcacc gcaggtcccg gcgcaaaggc gctcagagtc cgcagtggcc egggetggtc teegegaeee eeggeeeege eeegeeeege ggeeeegeee 1301 1351 1401

FIG. 26C

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1901 cccggccgct ccgccctccg ctcggccaga ggctccgggc cccagggcgg cccgcgggCg cagcgcccag cagcacccgg agtcgcttgg acgccggttc gagtggcgac gccgggcggc gggacccATG GAGGCGCGCG GGGAGCTGGG ggggctattg cggggtggcg tcgctgggcc cgggaaagtt cgggactgga CCCGGCCCGG GAGTCGGCGG GAGGCGACCT GCTGCTAGCA CTGCTGGCGC GGAGGGCAGA CCTGCGCCGA Ggtgggtgcc cgggccgagc ggctgcaccg caggagctag aggatctggg cgggagtggg cgcgaggacc ccggaacgtc cgcgcctggg cgcctcagcc tgtatttgtt gcagggcccc tggcctgggt tgtcagggag tgagtgaggt tgtggcactg cgctgctccg gccagggagc gggagaccag gagatcctca ggcctttccg ggcctggccg cggaggctgg tctcgggggt ccagggtggg cttaggagac ctctgcagcc cggagccagc gacaggaggg tcccaagaa ggccgcccca gccggactct ttccacgttc cagoggaaca gagtcagatg caggggccaa ggtogagotg aacteegaee tccctgggct ggaggaggcg cagggagcag tggcggggca gtgaccacgg gteggtetee eegaageeag gttteagegt etgegeeeae agaeaeeege toggtttatc cccgctcagg gcccgtctgt aggaaaaagc ctctcttctc caggccccc agcttcctgg tggcaccact ctagctccca gcactttggt tcttagggaa cctgggcagt tctcctcgac tcccgggcca ggtggagccg caggatgggg aaggaggccc cggagccagt ggggagtgag agggaccggc 2401

FIG. 26D

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tatttattta tttttcgacg gttcctggga ggggttggcc gcgggggctg cggcgggaag ggggttacat ccaggctgtg ggggctcgcg gttccctact gggggcggag agaggaaggg aggaaggagg actgcgcgcc cgcgctcggg agagctggcc ggagcgggcg ggctggcgtc caggctccgc cgaccccgcc atccctgaca caggagcccc cgccagggct ggagtcgcca tgcagcgtaa ggatagggta gagggagagg agaggggtgg gatggggagg attttgaaag acgegggege eggeggegag etgeggeega ggegetgtee ggteegeggt gctgaatccg cgctgtgtcg gcctgtcggg ccgccccgct ccgaccgggt cctcgcctgc gatcgctgcc cacgatgggg accccgggcg cgcagcgggt cctcgacgct ccgcacccgg agctgcggtt ttgccggatg cgggggcgcat tcatcgccgg tttcccgcca ctgcgtgggg aggcgcagcc cagttttttc cgccggaggt cgagggagcc ccttcctggt gtctctcacc cactgggaga tgggctggag ccggcggggt ccacagccag ggaggcgggt gcaatatgtc agtaaatccc ggtcccttca gcgggcactc ctctcttcca gagacttttt ctaagtgaag agggagteet cageeettga caeetggaaa aceegeteae aagccagacg tttgagtaac tctgncggtg ttggggggcac ccacgcttga cacaaagcca gtggatgggt ttgtccagtc cactcataag taattttgcg agactcgagg ctcccacagg gcacccttgg acctccccag tgtggttcct ccagggggcc tgcagtattg aagtggggtg tgggggggcag aagcagcggg 2851 3351 3401 3451 3501 3551 3601

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3801 gctgcccaat gatggggaag gcattgatat ttaccccgga ggcctgcaga cagggccacc aggcagggca gccacatttg cgaggagtcc ctagaaagag tggccatgac gcttaacatg aaggagaccc gatggggtgc cccagctcca ggtgatggtg aagacccgtt tccctatgtt tcctgccggg cttcagagag cagatcccct tggggtgggg ttttcatttg agctccacat gcacccttct tggcactggc aacattttgt aattgagtat tcagcctcgt gaaatggcct gggctgcttt cttgctcaca cacatttttta gaccgatgtc agtttcccct tagctcctga cataggatgc ggtgcctgca cactcccgga acttgcggggg ccacttaagc tggctgggga agagggtgtg tagggaaagg aggaccctc ggcagccctg agtcctgtgg gccggagggg aggctggctc gcgttgggggt gggaaggtgg cttcactgcc tcctggtcta cgaggtgacc cagaacttcc tegtgcccac agAGATCCCG CTGTGCGCTG GCTGTGACCA GCACATCCTG GACCGCTTCA TCCTCAAGGC TCTGGACCGC CACTGGCACA GCAAGTGTCT CAAGTGCAGC GACTGCCACA CGCCACTGGC CGAGCGCTGC TTCAGCCGAG GGGAGAGCGT TTACTGCAAG GACGACTTTT TCAAgtgagc cccgaaacct cacctcagtg tgggagcgga gggcacgcct gccccaggga ctcctcccct cacaatcacc aaggccaggc cctcgaagcc tgcgtctctc gcaatcccag cccactcctg tcacccaggc agggcaccct gcggcctggc caaattaagg gtggggcctc tccatgggtg ctccctgggt ggctgggcct ggctgggaca 4701

JG. 26F

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4851 agttcctccg aaattggtga tgttttagtt cctaatgctg gcacccagcg gctctggccc agtggccttc atggctccag ctgtggggtg tgagggactg 4751 tcagcaagta ttatttcgaa aaaaaagcaa tttattacct aaatcacaga agcagtcatt agagaagata cacccctatt tgtaggattc tactggactt gccccagatg ggtcctctcc ctccggattc accttcccag atccagcatg ggtcctgcag gcaatggcgg ctgggctccc cgaggtcttt ctgagattga ggttcccttc tcagtgggag tgggcagctc tgccccggcg gccaggctgg cgaccaccct gcagggccgg acagagcctt cctccggggc cgccttccca ggcagccgct tgccgctctc caacccgctc ggggcgaaat gagcctcgcg cttccgcgct gagcccggcc ctgtgcgtcc cgcagGCGCT TCGGGACCAA GTGCGCCGCG TGCCAGCTGG GCATCCCGCC CACGCAGGTG GTGCGCCGCG CCCAGGACTT CGTGTACCAC CTGCACTGCT TTGCCTGCGT CGTGTGCAAG CGGCAGCTGG CCACGGGCGA CGAGTTCTAC CTCATGGAGG ACAGCCGGCT CGTGTGCAAG GCGGACTACG AAACCGCCAA GCAGCGAGgt cagccgaggg agtcacggac agacccgcgt cccgaaccgc ttcgttcggt ccgaagtgtg eggetttteg ecettggteg gaattatege ectaaattet tggeegegaa gacgacgctc ccacctttcc tggtctgaaa aaaatggggc tgaggccacg ctcagggggg cgtccgggga aattctctcc ccaagcgctc actaaggggg cctgggctag ggcggtgtag gcagcaggaa gccgaggccg ggaacggcgg 5301 5401

FIG. 26G

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5701 ggctgggcca tacccacacc cttagaataa aggggagccc gcggggaaat cagggtgctt ggagaaggga gccaaggctg aaggcggggg cgccgtggag gtgcgatttt agggaaggcg ccgccccgc cccgcggca gaacccgccc tecgeeggeg eceetteeae eceageeegg gtgetgeeeg tttttgeeaa tgggcacctg aggccccgac gtccccgcgc cggccggggt gggagggtgg AGCAGCTGGA GACGCTGAAG AGCGCTTACA ACACCTCGCC CAAGCCGGCG tegeteccag egecegegee tteegagaag eetgtggggge gggatgggggg cgcagAGGCC GAGGCCACGG CCAAGCGGCC GCGCACGACC ATCACCGCCA TTCCAGAACC GCCGGGCCAA GGAGAAGAGG CTGAAGAAGG ACGCCGGCCG gggtccggcc ggggccggag gggctgccgc gcctcaccgc tcgcccgccg CGCCACGTGC GCGAGCAGCT CTCGTCCGAG ACGGGCCTGG ACATGCGTGT GGTGCAGgtc agcgctcgcc cctgcttccc tcccgcccgc ggccttgggg gococogcag agoogggogg cogotoacco ogocoogooc coagGTTTGG CCAAGTCGGA CAAGGACAGC GTTCAGGAGG GGCAGGACAG CGACGCTGAG GTCTCCTTCC CCGgtaggcg gagggatcgc ggagctcggg ggggggacga gegegegteg geggggtege aggggteeea gggageeege ggatetgaat ttcccatgga gttagtggac tccttaagtt ctactttcaa aagcatttca cttacagaac ctgctcccc agcaccctcc ccgccctggg tggccactcc GCAGCGCTGG GGGCAGTATT TCCGCAACAT GAAGCGCTCC CGCGGCGCCI 5801 6201 6301 6251 6351 6401 6501 6601 6551

FIG. 26H

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tececaaget gggegeetae gggetttete atgggggggt gggegtgtee 6651 ggaccactgc ttttcccctg gtggggacac aatccctgtg gcccgacctg aggccgtctc tctggctcct agcccttgca gtgattttta ggagaatggg cagtgcattt cgggaaagac tgagtcgaag tcccagctgc ttggagttgg gggaggggc tacctggggt cagggagaga aggttccata cccttctgtg ggggctggat tatttatttc attctccggg caccggggat gctgcgtccc catctgttga tgcccatcct cagaatgtgg acaagacact ctcttttggg ctgcctcgtg acccgggcta ctcactcagc cactctggaa ctaaatatcc ttgtctgcaa aatgtgggtg gtggtatctg tgcccccttc ctaggctgct gtggggctgg tcctgaaagc ctgggccctg gctgggctgt tcctgactct tgtcatgtgg tgtggggcag ccactctttc tctgacccag gggtgcctcc gatcccacca ggcctgagac acctgggctg actcaggggt gagggcagtg gagggcagg gacagccatg ctccaacagt agaaggggcc tgtgctgacc gcctgcagga tgggactctg aggggccgca ggtggagggc aggcgctgac tgagcctctg cttctgttgc agATGAGCCT TCCTTGGCGG AAATGGGCCC GGCCAATGGC CTCTACGGGA GCTTGGGGGA ACCCACCCAG GCCTTGGGCC GGCCCTCGGG AGCCCTGGGC AACTTCTCC TGGAGCATGG AGGCCTGGCA GGCCCAGAGC AGTACCGAGA GCTGCGTCCC GGCAGCCCCT ACGGTGTCCC 6901 7051 7101

FIG. 26

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ggctccaccc tgcacctcac acgagggagc tgcccctggg tgggcggctc 7551 CCCATCCCC GCCGCCCGC AGAGCCTCCC TGGCCCCCAG CCCCTCCTCT 7601 CCAGCCTGGT GTACCCAGAC ACCAGCTTGG GCCTTGTGCC CTCGGGAGCC CCCGGCGGC CCCCACCCAT GAGGGTGCTG GCAGGGAACG GACCCAGTTC TGACCTATCC ACGGGGAGCA GCGGGGTTA CCCCGACTTC CCTGCCAGCC CCGCCTCCTG GCTGGATGAG GTAGACCACG CTCAGTTCTG Acccaggccc ggggctgctg gggtttccga ggaagtgggg ccagggcgtc aagggagggc tggtgccttc ggagcctccc actgccgacc gcacagctcc ctctctgggg gctgagggac ccacctggcc cctcctctga cacagggctg gcccgccagg tgaccaatta actgagcact tgctgctatt tctagacatg aaatgtcacc ttgctgaggc ccagcccagc ccagcatagc ccgagggctg gaaaaacgct tggcctccca gcaagccagc cttttttgta agcaaatttc tcccctttat ttcatctcta aaactgagaa atcatcataa ttgtgctttc acttcccagg ctccatgtgt cttggagccg tcaccccgag gctccctctt taggtcggag attggccttg cctgtcgagg caagaggctg cagaggcggg gacacctg tgtcttccgg gagaggcccc ctcctctccc cagaccacag ggggcctctc tgcctccagc cccaccttcc ccgggagaag ctttccccaa tccccaggtc tctagatcat tctgttctcg agtatcctgt ggaggaggca aaaatgcctg 7801 7851 8251 8301 8101 8151 8201

FIG. 26.1

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8451 gagacatta tatacaagat caattatata agacaataag ggtataaac tcaccccacc ccaggccctt ggtgtccagg ctgcacccac agatgtctgt tgccaaacag cctgccctcc ctgccggagc cggctctgcc agccccagat tgggaagtet eccegetgga gaagggtggg geteetetga geetgeeetg cctcctccat cagatccttt gggaagaagt ttctgggaga tgcccgcagc cccgcaaacc tgaatctcga gctacctatt ggttctgtga atgttctgtg tgtgcgtgcc ccagacacaa aggctggcct gtgtgtaagt caaagtcact tcttttattt attctcgggt gatcagctct ttccaagact tcaaaaaant gtcagttacc tcgtgcc 8501 8551 8601 8851 8801

FIG. 27A

1 atgetgetgg aaacggaget ggegggegae egagategge eeggggeeee 51 cgcagccgcc gctgtctgca ccttacccgg gactcgggag atcccactgt 101 gtgccggctg cgaccagcac atcctggacc gcttcatcct caaggctctg gaccgccact ggcacagcaa gtgcctcaag tgcagtgact gccacacgcc gctggccgag cgctgcttca gccgcggaga gagcctctac tgcaaggacg acttcttcaa gcgcttcggg accaagtgcg ccgcgtgcca gctgggcatc ccgcccacgc aggtggtgcg ccgcgcccag gacttcgtgt accacctgca 151 201

FIG. 27B

conts along congruence may make contraction makes if it had beat out out! out flow, it that all all entire bear made finds it

The stant term of the part of the

401 tctacctcat ggaggacagc cggctcgtgt gcaaggccga ctacgagacc 501 cacggccaag cagctggaga cgctgaagag cgcctacaac acgtcgccca 351 ctgcttcgcc tgcgtcgtgt gcaagcggca gctggccacg ggcgacgagt gccaagcagc gagaggccga ggccacggcc aagcggccgc gcacgaccat 551 agcccgcgcg ccacgtgcgc gagcagctct cctccgagac cggcctggac atgcgcgtcg tgcaggtgtg gttccagaac cgccgggcca aggaaaagcg gctcaagaag gacgccggcc ggcagcgctg gggccagtac tttcqtaaca tgaagcgcgc ccgcggtggc tccaagtcgg acaaggacag cgtccaggag gagggcagg acagtgacgc cgaggtctcc ttcacagacg agccatccat ggccgaaatg ggccctgcca acggcctcta cggcggcctg ggggagcctg cccctgcctt gggccggccc tcgggggccc cgggcagctt cccgctggag cacggaggcc tggcgggccc ggagcagtat ggagagctgc gccccagcag cccctacggt gtcccctcgt cgcccgccgc cctgcagagc ctccctggcc cccagcccct cctctccagc ttggtgtacc cggaggctgg cttggggctt gtgcccgcgg ggccccagg tgggccccca cccatgaggg tgctggcagg gaacggaccc agctccgacc tatccacggg gagcagtggg ggctacccg acttccctgc cagtcccgcc tcctggctgg acgaggtgga tcacgctcag ttctgactga ggccccagct ccgtggagca ccagacacga gcactgcccc

FIG. 270

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tttctagacc ggagtggtca gcccccgaag ccgggggaggg gggctctccc cagcccagag cagcacagcc ctcagactgg aagatgcttt aatttttaaa 1251 tggctgggtg gtcgggagcc gcgctctcct ttcccgaagc cctgggcctc 1301 taaaggacac agggtcaccg gcggggcaca ggctgaggac tgtccagccc aagcagattc ctccctttat caaccaaaat taactgagtg cttgctgctc ggcggccctg gccccgggca gagggacttt ctcccggtct cgaggctcct tctgggacaa ggggagccac ctggtggctg ctcagcaagc cttgttttgt attaaaaaat aatacgaact gtgcttccat ttcccagctt cctctgtcta gttctgcc 1351 1401 1451 1551 1501 1601

FIG. 28

HGGLAGPEQY GELRPSSPYG VPSSPAALQS LPGPQPLLSS LVYPEAGLGL 1 MLLETELAGD RDRPGAPAAA AVCTLPGTRE IPLCAGCDOH ILDRFILKAL PPTQVVRRAQ DFVYHLHCFA CVVCKRQLAT GDEFYLMEDS RLVCKADYET 151 AKQREAEATA KRPRTTITAK QLETLKSAYN TSPKPARHVR EQLSSETGLD 201 MRVVQVWFQN RRAKEKRLKK DAGRQRWGQY FRNMKRARGG SKSDKDSVQE VPAGPPGGPP PMRVLAGNGP SSDLSTGSSG GYPDFPASPA SWLDEVDHAQ DRHWHSKCLK CSDCHTPLAE RCFSRGESLY CKDDFFKRFG TKCAACQLGI EGODSDAEVS FTDEPSMAEMGPANGLYGGL GEPAPALGRP SGAPGSFPLE 51. 251 301

FIG. 29A

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atggaagcgc gcggggagct gggccccagc cgggagtcgg cgggcggcga cctgctgctg gcgctgctgg cgcggaggga ggacctgcgc cgagagatcc cactgtgtgc cggctgcgac cagcacatcc tggaccgctt catcctcaag gctctggacc gccactggca cagcaagtgc ctcaagtgca gtgactgcca aggacgactt cttcaagcgc ttcgggacca agtgcgccgc gtgccagctg ggcatcccgc ccacgcaggt ggtgcgccgc gcccaggact tcgtgtacca acgagttcta cctcatggag gacagccggc tcgtgtgcaa ggccgactac gagaccgcca agcagcgaga ggccgaggcc acggccaagc ggccgcgcac cacgccgctg gccgagcgct gcttcagccg cggagagagc ctctactgca cctgcactgc ttcgcctgcg tcgtgtgcaa gcggcagctg gccacgggcg gaccatcacg gccaagcagc tggagacgct gaagagcgcc tacaacacgt cgcccaagcc cgcgcgccac gtgcgcgagc agctctcctc cgagaccggc aaagcggctc aagaaggacg ccggccggca gcgctggggc cagtactttc gtaacatgaa gcgccccgc ggtggctcca agtcggacaa ggacagcgtc caggaggagg ggcaggacag tgacgccgag gtctccttca cagacgagcc agcetgeece tgeettggge eggeeetegg gggeeeeggg eagetteeeg ctggacatgc gcgtcgtgca ggtgtggttc cagaaccgcc gggccaagga atccatggcc gaaatgggcc ctgccaacgg cctctacggc ggcctgggggg 401

FIG. 29B

the state of the s

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901 ctggagcacg gaggcctggc gggcccggag cagtatggag agctgcgccc 951 cagcagcccc tacggtgtcc cctcgtcgcc cgccgccctg cagagcctcc accegaett eectgecagt eegeeteet ggetggaega ggtggateae 1001 ctggccccca gcccctcctc tccagcttgg tgtacccgga ggctggcttg gggcttgtgc ccgcggggcc cccaggtggg cccccaccca tgagggtgct ggcagggaac ggacccagct ccgacctatc cacggggagc agtgggggct gctcagttct gactgaggcc ccagctccgt ggagcaccag acacgagcac tgcccttggc tgggtggtcg ggagccgcgc tctcctttcc cgaagccctg ggcctctaaa ggacacaggg tcaccggcgg ggcacaggct gaggactgtc cagocoggog goootggooo ogggoagagg gaotttotoo oggtotogag gctccttctg ggacaagggg agccacctgg tggctgctca gcaagccttg ttttgtaagc agattcctcc ctttatcaac caaaattaac tgagtgcttg ctgctctttc tagaccggag tggtcagccc ccgaagccgg ggaggggggc tctccccagc ccagagcagc acagccctca gactggaaga tgctttaatt tttaaaatta aaaaataata cgaactgtgc ttccatttcc cagcttcctc tgtctagttc tgcc 1351

FIG. 30

1 MEARGELGPS RESAGGDLLL ALLARREDLR REIPLCAGCD QHILDRFILK 51 ALDRHWHSKC LKCSDCHTPL AERCFSRGES LYCKDDFFKR FGTKCAACQL ETAKOREAEA TAKRPRTTIT AKOLETLKSA YNTSPKPARH VREOLSSETG QEEGQDSDAE VSFTDEPSMA EMGPANGLYG GLGEPAPALG RPSGAPGSFP LEHGGLAGPE QYGELRPSSP YGVPSSPAAL QSLPGPQPLL SSLVYPEAGL 101 GIPPTQVVRR AQDFVYHLHC FACVVCKRQL ATGDEFYLME DSRLVCKADY GLVPAGPPGG PPPMRVLAGN GPSSDLSTGS SGGYPDFPAS PASWLDEVDH LDMRVVQVWF QNRRAKEKRL KKDAGRQRWG QYFRNMKRAR GGSKSDKDSV 201 301 251 351